

=> d his

(FILE 'HOME' ENTERED AT 10:47:06 ON 20 AUG 2004)

FILE 'EUROPATFULL, FRFULL, PATDPAFULL, PCTFULL, RDISCLOSURE, USPATFULL, USPAT2' ENTERED AT 10:47:48 ON 20 AUG 2004

E GRAHAM B/IN

L1 6 S E9-E10
L2 6 S L1 AND (?STATIN OR HMG? OR VIRUS OR VIRAL OR ANTIVIR?)
L3 29079 S (?STATIN OR HMG?) (L) (VIRUS OR VIRAL OR ANTIVIR? OR HIV OR RS
L4 8239 S LOVASTATIN OR SIMVASTATIN OR FLUVASTATIN OR ATORVASTATIN OR P
L5 3259 S L4 (L) (VIRUS OR VIRAL OR ANTIVIR? OR HIV OR RSV OR RESPIRTORY
L6 541 S L4 (S) (VIRUS OR VIRAL OR ANTIVIR? OR HIV OR RSV OR RESPIRTORY
L7 63 S L6 NOT PY>=2000
L8 1 S L2 AND L3
L9 1 S L2 AND L4

FILE 'MEDLINE, BIOSIS, EMBASE' ENTERED AT 11:23:34 ON 20 AUG 2004

L10 199 S L5
L11 108 DUP REM L10 (91 DUPLICATES REMOVED)
L12 27 S L11 NOT PY>=2000

FILE 'ADISCTI, CONFSCI, DRUGU, IMSRESEARCH' ENTERED AT 11:49:30 ON 20 AUG 2004

L13 750 S L10
L14 409 S L13 NOT PY>=2001
L15 406 DUP REM L14 (3 DUPLICATES REMOVED)

=>

ACCESSION NUMBER: 2001504507 MEDLINE
DOCUMENT NUMBER: PubMed ID: 11257039
TITLE: **Antiviral** activity of **lovastatin**
against respiratory syncytial **virus** in vivo and
in vitro.
AUTHOR: Gower T L; Graham B S
CORPORATE SOURCE: Department of Microbiology, Vanderbilt University School of
Medicine, Nashville, Tennessee 37232, USA.
CONTRACT NUMBER: RO1-AI-33933 (NIAID)
SOURCE: Antimicrobial agents and chemotherapy, (2001 Apr) 45 (4)
1231-7.
Journal code: 0315061. ISSN: 0066-4804.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200109
ENTRY DATE: Entered STN: 20010917
Last Updated on STN: 20010917
Entered Medline: 20010913

AB Respiratory syncytial **virus** (RSV) is an important human pathogen that can cause severe and life-threatening respiratory infections in infants and immunocompromised adults. We have recently shown that the **RSV** F glycoprotein, which mediates **viral** fusion, binds to RhoA. One of the steps in RhoA activation involves isoprenylation at the carboxy terminus of the protein by geranylgeranyltransferase. This modification allows RhoA to be attached to phosphatidyl serine on the inner leaflet of the plasma membrane. Treatment of mice with **lovastatin**, a drug that inhibits prenylation pathways in the cell by directly inhibiting hydroxymethylglutaryl coenzyme A reductase, diminishes **RSV** but not vaccinia **virus** replication when administered up to 24 h after **RSV** infection and decreases **virus**-induced weight loss and illness in mice. The inhibition of replication is not likely due to the inhibition of cholesterol biosynthesis, since gemfibrozil, another cholesterol-lowering agent, did not affect **virus** replication and serum cholesterol levels were not significantly lowered by **lovastatin** within the time frame of the experiment. **Lovastatin** also reduces cell-to-cell fusion in cell culture and eliminates **RSV** replication in HEp-2 cells. These data indicate that **lovastatin**, more specific isoprenylation inhibitors, or other pharmacological approaches for preventing RhoA membrane localization should be considered for evaluation as a preventive **antiviral** therapy for selected groups of patients at high risk for severe **RSV** disease, such as the institutionalized elderly and bone marrow or lung transplant recipients.

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=> e GRAHAM b/in
'IN' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'RDISCLOSURE'
E1      3      GRAHAM ARTHUR WINBOW SEN TSUEN CHEN ET JAMES ALLEN RI/IN
E2      1      GRAHAM AUSTON B/IN
E3      0 --> GRAHAM B/IN
E4      3      GRAHAM B ERIC/IN
E5      1      GRAHAM BANK/IN
E6      6      GRAHAM BARBARA/IN
E7      2      GRAHAM BARBARA G/IN
E8      2      GRAHAM BARKER LEOPOLD SAFRIN ET MARTIN J BARABASH/IN
E9      4      GRAHAM BARNEY S/IN
E10     2      GRAHAM BARNEY SCOTT/IN
E11     2      GRAHAM BARRY/IN
E12     2      GRAHAM BARRY D/IN
```

The indicated field code is not available for EXPAND in this file. To see a list of valid EXPAND field codes, enter HELP SFIELDS at an arrow prompt (=>).

```
=> s e9-e10
'IN' IS NOT A VALID FIELD CODE
L1      6 ("GRAHAM BARNEY S"/IN OR "GRAHAM BARNEY SCOTT"/IN)
```

```
=> s l1 and (?statin or HMG? or virus or viral or antivir?)
3 FILES SEARCHED...
4 FILES SEARCHED...
L2      6 L1 AND (?STATIN OR HMG? OR VIRUS OR VIRAL OR ANTIVIR?)
```

```
=> d ibib 1-6
```

```
L2      ANSWER 1 OF 6      PCTFULL      COPYRIGHT 2004 Univentio on STN
ACCESSION NUMBER:      2003103612 PCTFULL ED 20040102 EW 200351
TITLE (ENGLISH):      METHOD OF USING PROSTACYCLIN TO TREAT RESPIRATORY
                        SYNCYTIAL VIRUS INFECTIONS
TITLE (FRENCH):      PROCEDES D'UTILISATION DE LA PROSTACYCLINE POUR TRAITER
                        DES INFECTIONS VIRALES RESPIRATOIRES SYNCYTIALES
INVENTOR(S):      PEEBLES, Ray Stokes, Jr., 3816 Hobbs Road, Nashville,
                        TN 37215, US;
                        HASHIMOTO, Koichi,, 63 Azuma Fukuhara Fukuyama,
                        Kohriyama, Fukushima 9638061, JP;
                        GRAHAM, Barney S., 301 Pure Spring Crescent,
                        Rockville, MD 20850, US
PATENT ASSIGNEE(S):      VANDERBILT UNIVERSITY, 305 Kirkland Hall, Nashville, TN
                        37240, US [US, US]
AGENT:      SHOUSE, Emily, A.$, Waddey & Patterson, 414 Union
                        Street, Suite 2020, Bank of America Plaza, Nashville,
                        TN 37219$, US
LANGUAGE OF FILING:      English
LANGUAGE OF PUBL.:      English
DOCUMENT TYPE:      Patent
PATENT INFORMATION:
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	NUMBER	KIND	DATE
	WO 2003103612	A2	20031218
DESIGNATED STATES			
W:	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR		
	CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID		
	IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD		
	MG MK MN MW MX MZ NI NO NZ OM PH PL PT RO RU SC SD SE		
	SG SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW		
RW (ARIPO):	GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW		
RW (EAPO):	AM AZ BY KG KZ MD RU TJ TM		
RW (EPO):	AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU		
	MC NL PT RO SE SI SK TR		
RW (OAPI):	BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG		

APPLICATION INFO.: WO 2003-US8280 A 20030317
PRIORITY INFO.: US 2002-60/364,395 20020315
US 2003-60/364,395 20030314

L2 ANSWER 2 OF 6 PCTFULL COPYRIGHT 2004 Univentio on STN
ACCESSION NUMBER: 1999062932 PCTFULL ED 20020515
TITLE (ENGLISH): INHIBITION OF **VIRAL** INFECTION AND SPREAD WITH
VIRAL AND RhoA-DERIVED PEPTIDES
TITLE (FRENCH): INHIBITION DE L'INFECTION ET DE LA PROPAGATION VIRALES
AU MOYEN DE PEPTIDES VIRAUX ET DERIVES DE RhoA
INVENTOR(S): **GRAHAM, Barney, Scott;**
PASTEY, Manoj
PATENT ASSIGNEE(S): VANDERBILT UNIVERSITY
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

NUMBER	KIND	DATE
WO 9962932	A2	19991209

DESIGNATED STATES

W:

AU CA JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC
NL PT SE

APPLICATION INFO.: WO 1999-US12338 A 19990603
PRIORITY INFO.: US 1998-60/087,955 19980604
US 1998-09/129,565 19980805

L2 ANSWER 3 OF 6 PCTFULL COPYRIGHT 2004 Univentio on STN
ACCESSION NUMBER: 1996011019 PCTFULL ED 20020514
TITLE (ENGLISH): INTERLEUKIN-12 AS AN ADJUVANT FOR PARAMYXOVIRIDAE
VACCINES
TITLE (FRENCH): INTERLEUKINE-12 UTILISEE EN TANT QU'ADJUVANT POUR
VACCINS CONTRE LES PARAMYXOVIRIDAE
INVENTOR(S): **GRAHAM, Barney, S.;**
TANG, Yi-Wei
PATENT ASSIGNEE(S): VANDERBILT UNIVERSITY
LANGUAGE OF PUBL.: English
DOCUMENT TYPE: Patent
PATENT INFORMATION:

NUMBER	KIND	DATE
WO 9611019	A1	19960418

DESIGNATED STATES

W:

AU CA JP MX AT BE CH DE DK ES FR GB GR IE IT LU MC NL
PT SE

APPLICATION INFO.: WO 1995-US12656 A 19951002
PRIORITY INFO.: US 1994-8/318,480 19941005

L2 ANSWER 4 OF 6 USPATFULL on STN
ACCESSION NUMBER: 2003:307038 USPATFULL
TITLE: Method of using prostacyclin to treat respiratory
syncytial **virus** infections
INVENTOR(S): Peebles, Ray Stokes, JR., Nashville, TN, UNITED STATES
Hashimoto, Koichi, Fukushima, JAPAN
Graham, Barney S., Rockville, MD, UNITED
STATES

NUMBER	KIND	DATE
US 2003216474	A1	20031120
US 2003-389295	A1	20030314 (10)

PATENT INFORMATION:

APPLICATION INFO.:

NUMBER	DATE
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PRIORITY INFORMATION:

US 2002-364395P	20020315 (60)
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DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: WADDEY & PATTERSON, 414 UNION STREET, SUITE 2020, BANK
OF AMERICA PLAZA, NASHVILLE, TN, 37219
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 9 Drawing Page(s)
LINE COUNT: 1178
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 5 OF 6 USPATFULL on STN

ACCESSION NUMBER: 2002:259368 USPATFULL
TITLE: Method of inhibiting **viral** infection using
HMG-COA reductase inhibitors and isoprenylation
inhibitors
INVENTOR(S): **Graham, Barney Scott**, Rockville, MD, UNITED
STATES
Gower, Tara L., Nashville, TN, UNITED STATES
Pastey, Manoj K., Silver Spring, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002142940	A1	20021003
APPLICATION INFO.:	US 2001-981682	A1	20011016 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-241247P	20001017 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FULBRIGHT & JAWORSKI L.L.P., A REGISTERED LIMITED PARTNERSHIP, SUITE 2400, 600 CONGRESS AVENUE, AUSTIN, TX, 78701	
NUMBER OF CLAIMS:	51	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	11 Drawing Page(s)	
LINE COUNT:	1297	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L2 ANSWER 6 OF 6 USPATFULL on STN

ACCESSION NUMBER: 2000:70822 USPATFULL
TITLE: Interleukin-12 as an adjuvant for paramyxoviridae
vaccines
INVENTOR(S): **Graham, Barney S.**, Nashville, TN, United
States
Tang, Yi-Wei, Nashville, TN, United States
PATENT ASSIGNEE(S): Vanderbilt University, Nashville, TN, United States
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6071893		20000606
APPLICATION INFO.:	US 1997-980160		19971126 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1994-318480, filed on 5 Oct 1994, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Hauda, Karen M.		
LEGAL REPRESENTATIVE:	Hamilton, Brook, Smith & Reynolds, P.C.		
NUMBER OF CLAIMS:	2		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 1 Drawing Page(s)		
LINE COUNT:	793		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

(02 (a))

ACCESSION NUMBER: 2000:21396 ADISCTI
DOCUMENT NUMBER: 800795484
TITLE: Concomitant administration of ABT-378/ritonavir results in
clinically important pharmacokinetics interaction with
atorvastatin but not pravastatin.
ADIS TITLE: Lopinavir/ritonavir + atorvastatin,
pravastatin: drug interactions.
Effects on pharmacokinetics
In volunteers.
AUTHOR: Carr R A; Andre A K; Bertz R J; Hsu A; Lam W; et al.
CORPORATE SOURCE: Abbott Laboratories, Abbott Park, Illinois, USA.
SOURCE: 40th Interscience Conference on Antimicrobial Agents and
Chemotherapy (Sep 17, 2000), pp. 334 (plus poster)
DOCUMENT TYPE: Study
REFERENCE: Hyperlipidaemia| Antivirals
FILE SEGMENT: Summary
LANGUAGE: English
WORD COUNT: 510